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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/876,277	06/07/2001	Brian S. Forbes	INTL-0577-US (P11464)	8806
7590	08/04/2005		EXAMINER	
Timothy N. Trop TROP, PRUNER & HU, P.C. 8554 KATY FWY, STE 100 HOUSTON, TX 77024-1805			CONNOLLY, MARK A	
			ART UNIT	PAPER NUMBER
			2115	

DATE MAILED: 08/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/876,277	FORBES ET AL.
	Examiner	Art Unit
	Mark Connolly	2115

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 16 May 2005.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6,9-16,18-24,26-32 and 34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-6,9-16,18-24,26-32 and 34 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

1. Claims 1-6, 9-16, 18-24, 26-32 and 34 have been presented for examination.
2. Applicant's arguments with respect to claims 1-6, 9-16, 18-24, 26-32 and 34 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 1-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants Admitted Prior Art [AAPA] in view of Price¹ US Pat No 5900768.
11. Referring to claim 1, the AAPA teaches the invention substantially including a supply voltage plane not receiving power from a power resource of the computer in response to a predetermined sleep state [page 1 lines 19-21]. The lowest power sleep state is interpreted as the predetermined sleep state.

The AAPA does not teach:

- a. in response to the computer being in a predetermined sleep state, driving a signal to cause a component to conduct a current in response to a subsequent back-driven voltage on the supply voltage plane to restrict a magnitude of the voltage.
- b. in response to the computer being in a predetermined state other than the predetermined sleep state, removing the signal.

Price teaches grounding a power plane while a power supply is disconnected from the computer to prevent back-driven voltage and removing the power plane from ground when the power supply is reconnected to the computer [col. 1 lines 14-19 and 55-67, col. 2 lines 39-49 and col. 3 lines 26-33]. When grounding the voltage supply plane, any voltage present on the plane would be drawn to ground and thus cause current to flow towards ground through the load coupling the voltage supply plane and ground (i.e. transistor 208). Grounding the voltage supply plane inherently restricts the magnitude of the voltage on the voltage supply plane. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the AAPA system to ground the power plane when the power supply is disconnected from the computer and removing the power plane when the power supply is reconnected because it will provide a means to prevent initialization problems associated with floating power lines yet still maintain efficiency of the power supply [col. 1 lines 20-30 and 63-67]. It is interpreted in the AAPA-Price system that the power supply is disconnected during a predetermined sleep state and reconnected once the computer wakes from the predetermined sleep state.

12. Referring to claim 2, waking from the predetermined sleep state is interpreted as a higher power state than a sleep state since the predetermined sleep state is the lowest power sleep state as described above.

13. Referring to claim 3, the AAPA teaches that there are higher power sleep states which the computer can enter [page 1 lines 11-18].

14. Referring to claim 4, the AAPA teaches a range of sleep states that remove the power supply from the computer [page 1 lines 16-21].

¹ As cited in the previous office action.

15. Referring to claim 5, the AAPA teaches that the range of sleep states comprise the lowest power sleep states [page 1 lines 16-21].
16. Referring to claim 6, Price teaches back-driven voltage is produced by a powered peripheral [col. 1 lines 26-30 and col. 2 lines 39-49].
17. Referring to claim 9, it is obvious that in the AAPA-Price system that the power supply must be coupled to the computer when awaking from the predetermined sleep state so that power can be supplied to the computer.
18. Referring to claim 10, the AAPA teaches that the power is supplied through a voltage regulator [page 1 lines 19-21].
19. Referring to claims 11-16 and 18-24 and 26, these are rejected on the same basis as set forth hereinabove. The AAPA and Price teach the method and therefore teach the system performing the method.
20. Referring to claim 27, Price teaches grounding the supply voltage plane [col. 1 lines 14-19 and col. 2 lines 39-49].
21. Referring to claim 28, Price teaches providing a “very low impedance between the power line 202 and return line 206” [col. 3 lines 21-22]. It is obvious that this impedance could be between 1-10 ohms because 1-10 ohms is a very low impedance.
22. Referring to claims 29-32, these are rejected on the same basis as set forth hereinabove.
23. Referring to claim 34, it is obvious that the coupling would only last the duration of the sleep state because otherwise the system would be inoperable since the supply voltage plane would be grounded.

Conclusion

24. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

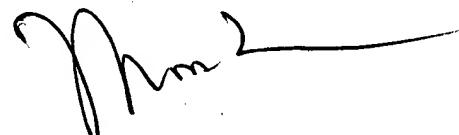
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Connolly whose telephone number is (571) 272-3666. The examiner can normally be reached on M-F 8AM-5PM (except every first Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee can be reached on (571) 272-3667. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Connolly
Examiner
Art Unit 2115

mc
July 25, 2005


A handwritten signature in black ink, appearing to read "Mark Connolly", is positioned above a small rectangular stamp. The stamp contains the text "SEARCHED" and "INDEXED" vertically, with "JULY 25 2005" at the bottom.